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Catalog Supplement

1972-74

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SUPPLEMENT TO THE FAIRMONT STATE COLLEGE 1972-74 CATALOG

August 1972

The following revisions and additions should be considered as an integral part of the 1972-74 catalog.

STUDENTS OVER TWENTY-ONE YEARS OF AGE, p. 38
substitute age 18 for 21

THE NATIONAL DEFENSE STUDENT LOAN PROGRAM, p. 44
#8--change to read:
8. Notes must be co-endorsed by parent or guardian.

QUALITY POINTS, p. 48
delete last sentence

CLASSIFICATION OF STUDENTS, p. 49
change number of hours completed for sophomore status from 58 to 57 and junior status from 90 to 89.

REPORTS TO STUDENTS, p. 51
delete "The grade reports of freshmen earning one or more grades of "D" or lower are forwarded to the parents at mid-semester by the Dean of Student Affairs."

GRADUATION WITH HONORS, p. 52
change last sentence to read: "Averages are based upon the entire academic record of the student."

BUSINESS ADMINISTRATION, p. 68
change 201, 202 Principles of Accounting from 3 to 6.

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415. HYDROBIOLOGY, p. 63
prerequisites should read: "PR: 210, 220, or consent."

CURRICULA FOR TEACHING FIELDS AND SPECIALIZATIONS IN CHEMISTRY, p. 65
"Chemistry Single Teaching Field grades 7-12" semester hours should be 40 not 41.

SAF 101, p. 98
should read First Aid not Accident and Disaster Control Systems

LIBRARY SCIENCE, p. 128
Audio-visual Aids 424 should be changed to "Educational Technology."

CURRICULA FOR TEACHING FIELDS AND SPECIALIZATIONS IN MUSIC
p. 136, last three lines should be indented one inch and lines 5-8, p. 137, should have the same indention as lines 1-4. Line 5, p. 137, change Major to Minor. Line 6, change I-VI to I-IV.

314. HISTORY, p. 142
course description should read: "A continuation of Music 313 covering the Classical, Romantic, and Modern periods. PR: Music 313."

470. SEMINAR IN POLITICAL SCIENCE, p. 148
add "Three hours."

SOCIOLOGY, p. 155
Electives in Sociology (Major) should be changed from 12 to 18.

360. THE FIELD OF SOCIAL WORK, p. 156
PR: 101 not 103

340. CHILDREN'S THEATRE PRACTICUM, p. 164
prerequisite should be changed to Speech 338 not 339.

TEACHING FIELDS AND SPECIALIZATIONS, p. 168
School Librarian--delete "Comprehensive" from Teaching Field (K-12).

EARLY CHILDHOOD SPECIALIZATION, p. 174
semester hours required change from 20 to 21.

TWO-YEAR CURRICULA, p. 180
add "Electronic Data Processing."

SOCIAL STUDIES, p. 154
delete grades "1-9" on choice of a second teaching field.

ELECTRONIC DATA PROCESSING, add p. 71

Electronic Data Processing is a two-year Associate in Science degree program with an objective of job entry training for computer programmers, operators, and various data handling job titles requiring special computer training. The program is of an occupational training nature with emphasis on marketable skills required in the operation of a typical commercial or scientific computer installation. A secondary objective is to provide background training and general education that will allow graduates to move to management and systems analyst positions after initial employment and experience.

EQUIPMENT

IBM 1130 Computer System on campus
On-line terminal access to an IBM 360/75 computer system
Unit Record equipment including 9 card punch machines

EDP CURRICULUM
ASSOCIATE DEGREE

First Semester	Sem. Hours
Intro. to EDP (EDP 100)(Bus. 408)	3
Punched Card Processing (EDP 101)(Bus.Ed. 312)	2
Computer Logic (EDP 102)	2
Math (Math 111)	3
English (English 104)	3
Elective	3
	16

Second Semester	
FORTRAN Programming (EDP 103)(Bus. 430)	3
COBOL Programming (EDP 104)(Bus. 429)	3
Math (112) or Statistics (Bus. 310)*	4-3
English (English 108)	3
Accounting (Bus. 201)	3
Elective	0-1
	16

Third Semester	
Assembler Programming (EDP 201)	3
Accounting (Bus. 202)	3
FORTRAN II (EDP 203)Optional*	3-0
COBOL II (EDP 204)	3
Bus. Organization (Bus. 309)	3
Elective	1-4
	16

Fourth Semester	
PL-1 & RPG (EDP 205)	3
Systems Analysis Seminar (EDP 210)	4
Operating Systems (EDP 220)	4
EDP Special Project (EDP 230)	3
Elective	2
	16

*Students with interest in scientific programming should elect Math 112 and EDP 203. Students with interest in commercial programming may elect to substitute Bus. 310 and a second business course of their choice or any combination.

COURSES OF INSTRUCTION
ELECTRONIC DATA PROCESSING

EDP 100. Introduction to Electronic Data Processing — Three hours

Three hours lecture and discussion per week. This course will provide an introduction to the major in Electronic Data Processing as well as a familiarization course for those students not continuing in the field. The course will cover the nature of data processing with Electronic Accounting Machines and EDP systems. Students will be introduced to the steps in data processing, computer hardware, programming languages, and computer application. Skill in programming with the BASIC Language will be developed. PR: none.

EDP 101. Punched Card Data Processing — Two hours

Three hours lecture and lab per week. Punched card handling and Electronic Accounting Machine System operation. Instruction and practice in card-punching, sorting, collating, and report preparation. PR: none.

*EDP 102. Computer Logic and Flowcharting — Two hours

Two hours lecture and discussion per week. First course in details of computer logic, word storage, computer arithmetic, and circuitry. Major emphasis is given to data processing problem analysis and planning with the flow-charting technique. Emphasis will also be given report design, print design, and record design. This course is a prerequisite for all courses in computer programming but may be taken concurrently. PR: none.

EDP 103. FORTRAN Programming I — Three hours

Three hours lecture and discussion per week. First course in FORTRAN IV computer programming. The language is developed through the level of subscripting. Students

will program, prepare job decks and operate the computer for typical data processing jobs. PR: EDP 100, 102, or concurrent registration.

EDP 104. COBOL Programming I Three hours
Three hours lecture and discussion per week. The introductory course for the major business programming language. Students will learn the COBOL language organization and be given practice in planning, writing, and processing COBOL programs. The COBOL language will require the development of a complete understanding of data, records, and files. PR: EDP 100, 102, or concurrent registration.

*EDP 201. Assembly Programming Three hours
Three hours lecture and discussion per week. The development of understanding and skill in computer programming at the Assembler level. Students will become more familiar with the internal operation of the computer, computer language, and programming efficiency. Data processing jobs are planned and processed using the Assembler language available on the computer system. PR: EDP 102.

*EDP 203. FORTRAN Programming II Three hours
Two hours lecture and two hours lab per week. Advanced course in programming and applications using the FORTRAN language. The student's knowledge of FORTRAN is developed to a level of sophistication that will allow immediate employment as a beginning programmer in the language. Course develops programming efficiency and advanced techniques. Time is devoted to programming and operations in the Computer Center. PR: EDP 103.

*EDP 204. COBOL Programming II Three hours
Two hours lecture and two hours lab per week. Advanced course in programming and applications using the COBOL language. The student's knowledge of COBOL is developed to a level of sophistication in the language.

Course develops programming efficiency and advanced techniques. Time is devoted to programming and operations in the Computer Center. PR: EDP 104.

*EDP 205. RPG, PL-I, and Conversational Programming — Three hours

Two hours lecture and two hours lab per week. An introduction to miscellaneous and conversational level languages the student may encounter on the job. The basic languages will be developed and provide the student an opportunity to process jobs in each language. PR: EDP 103 and 104.

*EDP 210. Systems Analysis and Applications Seminar — Four hours

Two hours lecture and four hours lab per week. Instruction and practice in planning complete information and data processing systems. This involves file maintenance, hardware planning, management, and processing job planning. Course is designed to focus all the student's early training on experience in complete data processing applications. Course is organized for the simulation of business and scientific computer data processing facilities. PR: EDP 203 and 204 or concurrent registration.

*EDP 220. Operating Systems Seminar — Four hours

Two hours lecture and four hours lab per week. A comprehensive experience in computer operation. The course will develop an understanding and skill in utilization of the software support of the available computer system. The student is provided the opportunity to operate the computer system, encounter and cope with daily problems of a computer operation, and develop proficiency in the final phases of data processing in the computer installation. PR: EDP 203 and 204 or concurrent registration.

*EDP 230. EDP Special Project Three hours

The course may be taken during the summer or the last semester. Independent work by the student with an area computer installatio or in the college computer center. Practical application and experience with a data processing project for which the student will have total responsibility. The student and program director will agree on the nature of the project necessary to satisfy the requirement. PR: EDP 203 and 204 or concurrent registration.

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